



EXPRESS MAIL NO: EV335609170US

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SEQUENCE LISTING

<110> Gaiger, Alexander
Cheever, Martin A.

<120> COMPOSITONS AND METHODS FOR WT1 SPECIFIC
IMMUNOTHERAPY

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<141> 1999-03-25

<150> US 09/164,223

<151> 1998-09-30

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<210> 300
 <211> 9
 <212> PRT
 <213> Mus musculus

<400> 300
 Thr Cys Gln Arg Lys Phe Ser Arg Ser
 1 5

<210> 301
 <211> 9
 <212> PRT
 <213> Mus musculus

<400> 301
 Thr Glu Gly Gln Ser Asn His Gly Ile
 1 5

<210> 302
 <211> 9
 <212> PRT
 <213> Mus musculus

<400> 302
 Thr Leu His Phe Ser Gly Gln Phe Thr
 1 5

<210> 303
 <211> 9
 <212> PRT
 <213> Mus musculus

<400> 303
 Thr Leu Val Arg Ser Ala Ser Glu Thr
 1 5

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    <210> 304
    <211> 9
    <212> PRT
    <213> Mus musculus

    <400> 304
Val Leu Asp Phe Ala Pro Pro Gly Ala
 1          5

    <210> 305
    <211> 9
    <212> PRT
    <213> Mus musculus

    <400> 305
Trp Asn Gln Met Asn Leu Gly Ala Thr
 1          5

    <210> 306
    <211> 9
    <212> PRT
    <213> Mus musculus

    <400> 306
Tyr Phe Lys Leu Ser His Leu Gln Met
 1          5

    <210> 307
    <211> 9
    <212> PRT
    <213> Mus musculus

    <400> 307
Tyr Gln Met Thr Ser Gln Leu Glu Cys
 1          5

    <210> 308
    <211> 9
    <212> PRT
    <213> Mus musculus

    <400> 308
Tyr Ser Ser Asp Asn Leu Tyr Gln Met
 1          5

    <210> 309
    <211> 6
    <212> PRT
    <213> Homo sapien

    <400> 309
Gly Ala Ala Gln Trp Ala
 1          5

    <210> 310
    <211> 12

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<212> PRT
 <213> Homo sapien

<400> 310
 Ala Ser Ala Tyr Gly Ser Leu Gly Gly Pro Ala Pro
 1 5 10

<210> 311
 <211> 15
 <212> PRT
 <213> Homo sapien

<400> 311
 Ala Phe Thr Val His Phe Ser Gly Gln Phe Thr Gly Thr Ala Gly
 1 5 10 15

<210> 312
 <211> 5
 <212> PRT
 <213> Homo sapien

<400> 312
 His Ala Ala Gln Phe
 1 5

<210> 313
 <211> 32
 <212> PRT
 <213> Homo sapien

<400> 313
 Cys His Thr Pro Thr Asp Ser Cys Thr Gly Ser Gln Ala Leu Leu Leu
 1 5 10 15
 Arg Thr Pro Tyr Ser Ser Asp Asn Leu Tyr Gln Met Thr Ser Gln Leu
 20 25 30

<210> 314
 <211> 32
 <212> PRT
 <213> Homo sapien

<400> 314
 Arg Ile His Thr His Gly Val Phe Arg Gly Ile Gln Asp Val Arg Arg
 1 5 10 15
 Val Pro Gly Val Ala Pro Thr Leu Val Arg Ser Ala Ser Glu Thr Ser
 20 25 30

<210> 315
 <211> 4
 <212> PRT
 <213> Homo sapien

<400> 315
 Arg Tyr Phe Lys
 1

<210> 316

<211> 14
 <212> PRT
 <213> Homo sapien

<400> 316
 Glu Arg Arg Phe Ser Arg Ser Asp Gln Leu Lys Arg His Gln
 1 5 10

<210> 317
 <211> 22
 <212> PRT
 <213> Homo sapien

<400> 317
 Gln Arg Lys Phe Ser Arg Ser Asp His Leu Lys Thr His Thr Arg Thr
 1 5 10 15
 His Thr Gly Lys Thr Ser
 20

<210> 318
 <211> 21
 <212> PRT
 <213> Homo sapien

<400> 318
 Cys Gln Lys Lys Phe Ala Arg Ser Asp Glu Leu Val Arg His His Asn
 1 5 10 15
 Met His Gln Arg Asn
 20

<210> 319
 <211> 449
 <212> PRT
 <213> Homo sapien

<400> 319
 Met Gly Ser Asp Val Arg Asp Leu Asn Ala Leu Leu Pro Ala Val Pro
 1 5 10 15
 Ser Leu Gly Gly Gly Gly Gly Cys Ala Leu Pro Val Ser Gly Ala Ala
 20 25 30
 Gln Trp Ala Pro Val Leu Asp Phe Ala Pro Pro Gly Ala Ser Ala Tyr
 35 40 45
 Gly Ser Leu Gly Gly Pro Ala Pro Pro Ala Pro Pro Pro Pro
 50 55 60
 Pro Pro Pro Pro His Ser Phe Ile Lys Gln Glu Pro Ser Trp Gly Gly
 65 70 75 80
 Ala Glu Pro His Glu Glu Gln Cys Leu Ser Ala Phe Thr Val His Phe
 85 90 95
 Ser Gly Gln Phe Thr Gly Thr Ala Gly Ala Cys Arg Tyr Gly Pro Phe
 100 105 110
 Gly Pro Pro Pro Ser Gln Ala Ser Ser Gly Gln Ala Arg Met Phe
 115 120 125
 Pro Asn Ala Pro Tyr Leu Pro Ser Cys Leu Glu Ser Gln Pro Ala Ile
 130 135 140
 Arg Asn Gln Gly Tyr Ser Thr Val Thr Phe Asp Gly Thr Pro Ser Tyr
 145 150 155 160
 Gly His Thr Pro Ser His His Ala Ala Gln Phe Pro Asn His Ser Phe

				165					170					175			
Lys	His	Glu	Asp	Pro	Met	Gly	Gln	Gln	Gly	Ser	Leu	Gly	Glu	Gln	Gln		
			180					185					190				
Tyr	Ser	Val	Pro	Pro	Pro	Val	Tyr	Gly	Cys	His	Thr	Pro	Thr	Asp	Ser		
		195					200					205					
Cys	Thr	Gly	Ser	Gln	Ala	Leu	Leu	Leu	Arg	Thr	Pro	Tyr	Ser	Ser	Asp		
	210					215					220						
Asn	Leu	Tyr	Gln	Met	Thr	Ser	Gln	Leu	Glu	Cys	Met	Thr	Trp	Asn	Gln		
225					230					235					240		
Met	Asn	Leu	Gly	Ala	Thr	Leu	Lys	Gly	Val	Ala	Ala	Gly	Ser	Ser	Ser		
			245						250					255			
Ser	Val	Lys	Trp	Thr	Glu	Gly	Gln	Ser	Asn	His	Ser	Thr	Gly	Tyr	Glu		
			260					265					270				
Ser	Asp	Asn	His	Thr	Thr	Pro	Ile	Leu	Cys	Gly	Ala	Gln	Tyr	Arg	Ile		
		275					280					285					
His	Thr	His	Gly	Val	Phe	Arg	Gly	Ile	Gln	Asp	Val	Arg	Arg	Val	Pro		
	290					295					300						
Gly	Val	Ala	Pro	Thr	Leu	Val	Arg	Ser	Ala	Ser	Glu	Thr	Ser	Glu	Lys		
305					310					315					320		
Arg	Pro	Phe	Met	Cys	Ala	Tyr	Pro	Gly	Cys	Asn	Lys	Arg	Tyr	Phe	Lys		
				325					330					335			
Leu	Ser	His	Leu	Gln	Met	His	Ser	Arg	Lys	His	Thr	Gly	Glu	Lys	Pro		
			340					345					350				
Tyr	Gln	Cys	Asp	Phe	Lys	Asp	Cys	Glu	Arg	Arg	Phe	Ser	Arg	Ser	Asp		
		355					360					365					
Gln	Leu	Lys	Arg	His	Gln	Arg	Arg	His	Thr	Gly	Val	Lys	Pro	Phe	Gln		
	370					375					380						
Cys	Lys	Thr	Cys	Gln	Arg	Lys	Phe	Ser	Arg	Ser	Asp	His	Leu	Lys	Thr		
385					390					395					400		
His	Thr	Arg	Thr	His	Thr	Gly	Lys	Thr	Ser	Glu	Lys	Pro	Phe	Ser	Cys		
				405					410				415				
Arg	Trp	Pro	Ser	Cys	Gln	Lys	Lys	Phe	Ala	Arg	Ser	Asp	Glu	Leu	Val		
			420					425					430				
Arg	His	His	Asn	Met	His	Gln	Arg	Asn	Met	Thr	Lys	Leu	Gln	Leu	Ala		
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Leu

<210> 320
 <211> 449
 <212> PRT
 <213> Mus musculus

<400> 320

Met	Gly	Ser	Asp	Val	Arg	Asp	Leu	Asn	Ala	Leu	Leu	Pro	Ala	Val	Ser		
1				5					10				15				
Ser	Leu	Gly	Gly	Gly	Gly	Gly	Cys	Gly	Leu	Pro	Val	Ser	Gly	Ala	Ala		
		20						25					30				
Gln	Trp	Ala	Pro	Val	Leu	Asp	Phe	Ala	Pro	Pro	Gly	Ala	Ser	Ala	Tyr		
		35					40					45					
Gly	Ser	Leu	Gly	Gly	Pro	Ala	Pro	Pro	Pro	Ala	Pro	Pro	Pro	Pro	Pro		
	50					55					60						
Pro	Pro	Pro	Pro	His	Ser	Phe	Ile	Lys	Gln	Glu	Pro	Ser	Trp	Gly	Gly		
65					70					75					80		
Ala	Glu	Pro	His	Glu	Glu	Gln	Cys	Leu	Ser	Ala	Phe	Thr	Leu	His	Phe		
				85					90					95			
Ser	Gly	Gln	Phe	Thr	Gly	Thr	Ala	Gly	Ala	Cys	Arg	Tyr	Gly	Pro	Phe		

[illegible]

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<210> 321
<211> 9
<212> PRT
<213> Homo sapien and Mus musculus
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      <400> 321
Pro  Ser  Gln  Ala  Ser  Ser  Gly  Gln  Ala
 1                               5

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$$\begin{array}{ll} \langle 210 \rangle & 322 \\ \langle 211 \rangle & 9 \end{array}$$

<212> PRT

<213> Homo sapien and Mus musculus

<400> 322

Ser Ser Gly Gln Ala Arg Met Phe Pro
1 5

<210> 323

<211> 9

<212> PRT

<213> Homo sapien and Mus musculus

<400> 323

Gln Ala Arg Met Phe Pro Asn Ala Pro
1 5

<210> 324

<211> 9

<212> PRT

<213> Homo sapien and Mus musculus

<400> 324

Met Phe Pro Asn Ala Pro Tyr Leu Pro
1 5

<210> 325

<211> 9

<212> PRT

<213> Homo sapien and Mus musculus

<400> 325

Pro Asn Ala Pro Tyr Leu Pro Ser Cys
1 5

<210> 326

<211> 9

<212> PRT

<213> Homo sapien and Mus musculus

<400> 326

Ala Pro Tyr Leu Pro Ser Cys Leu Glu
1 5